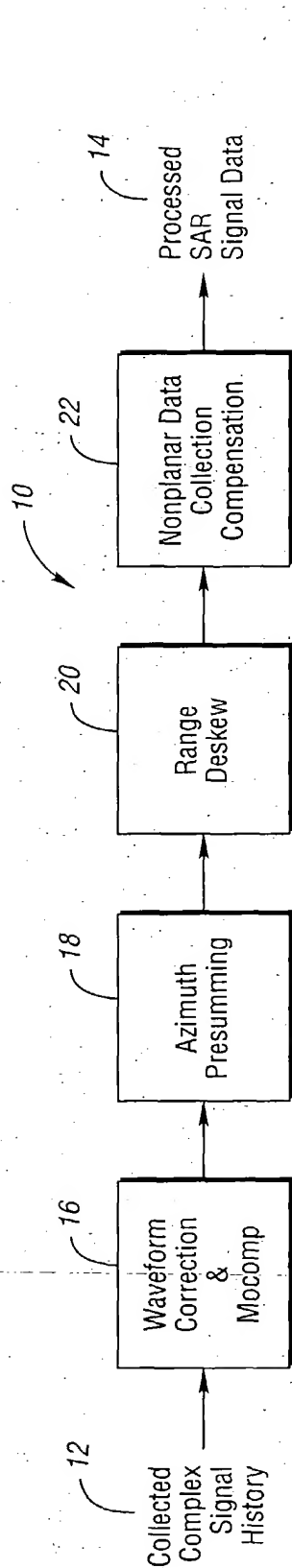


Title: METHOD AND SYSTEM FOR PROVIDING ALONG-TRACK ALIGNMENT AND FORMATTING OF SYNTHETIC APERTURE RADAR (SAR) DATA, AND SAR IMAGE FORMATION ALGORITHMS USING SUCH METHOD AND SYSTEM

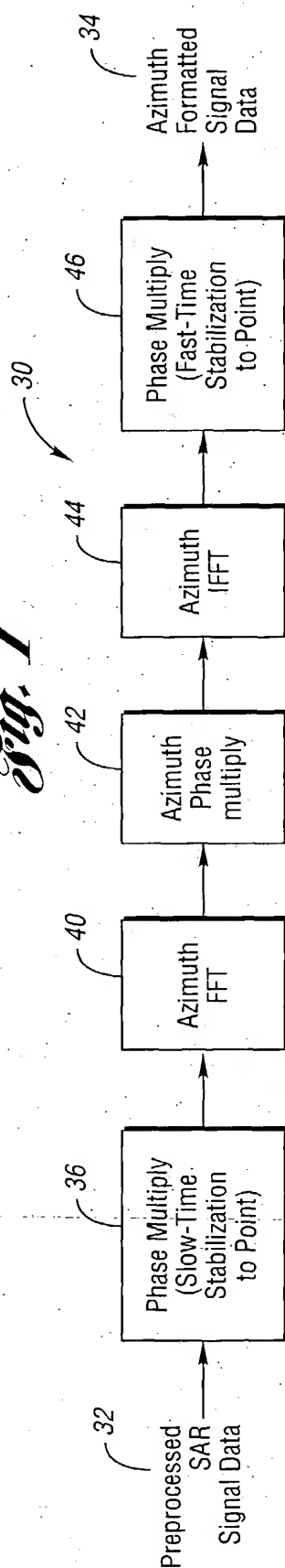
First Named Inventor: Walter G. Cararra

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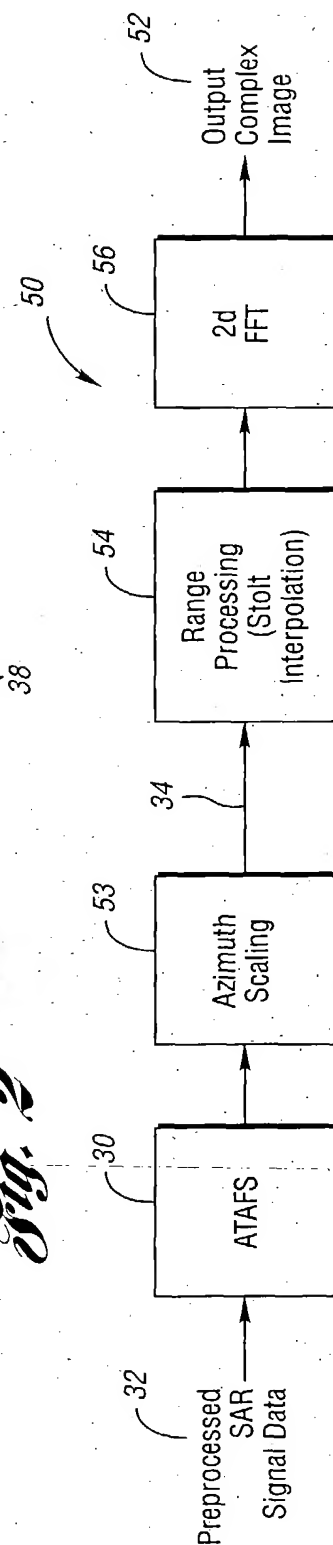
1/15



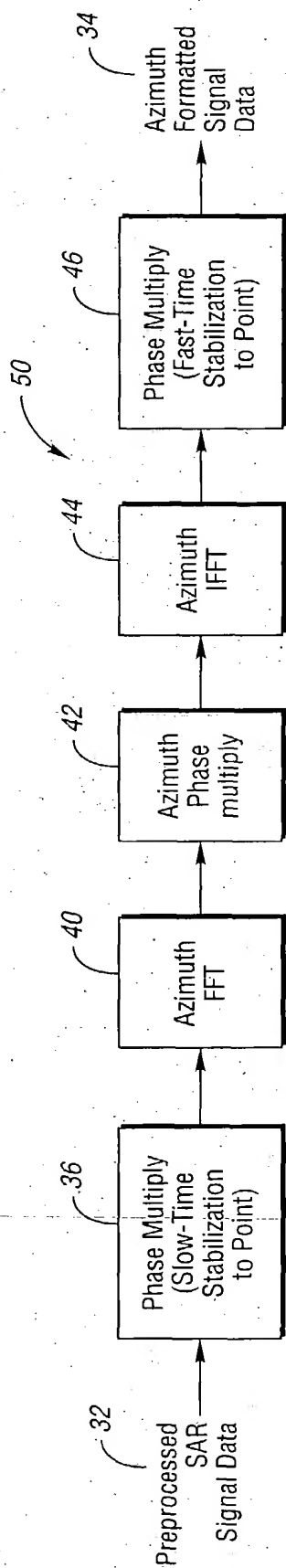
*Fig. 1*



*Fig. 2*



*Fig. 3*



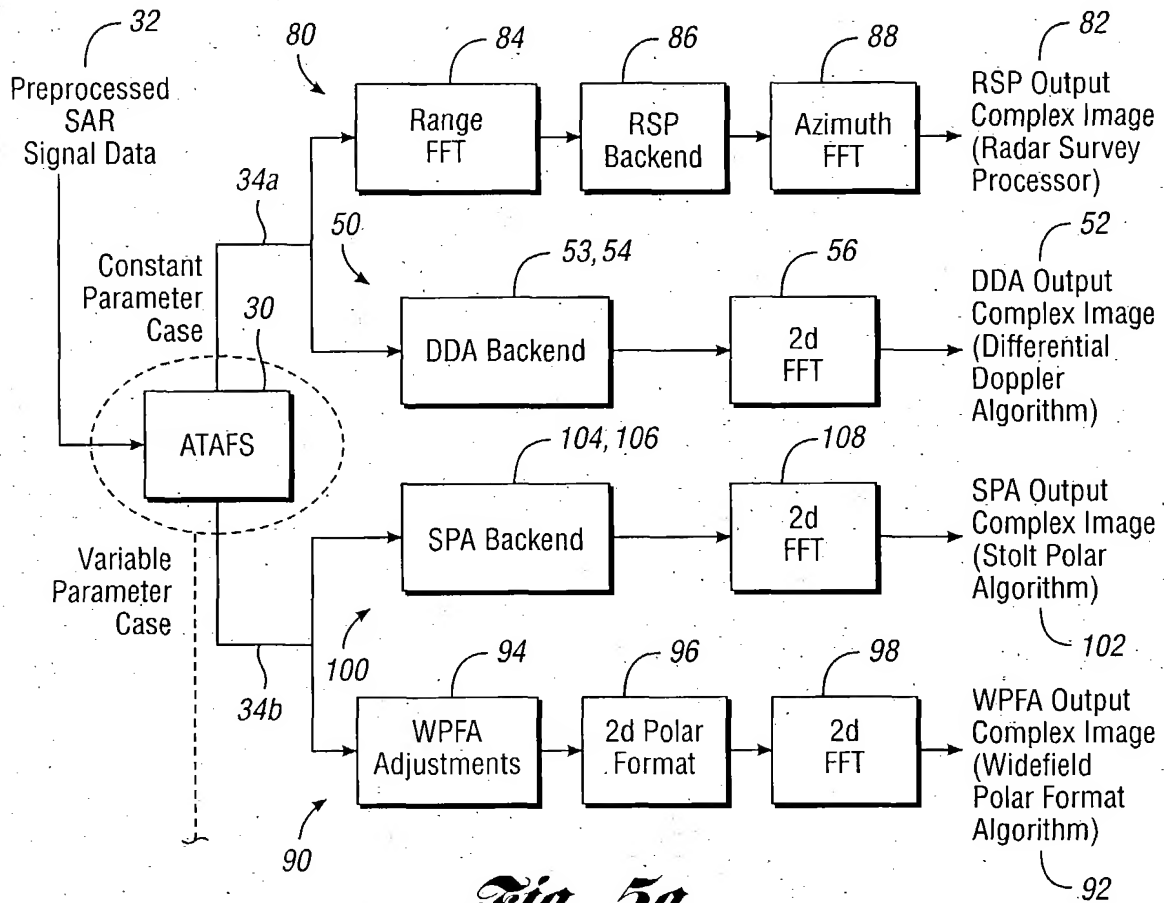
*Fig. 4a*



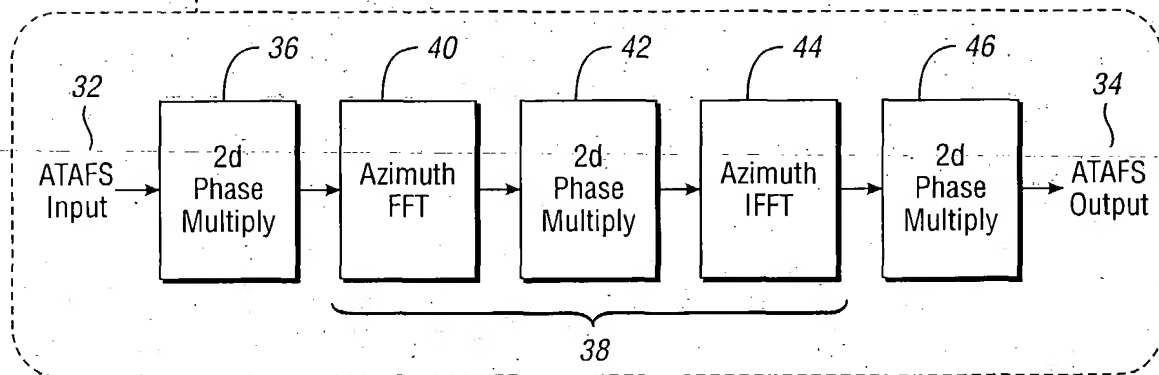
*Fig. 4b*



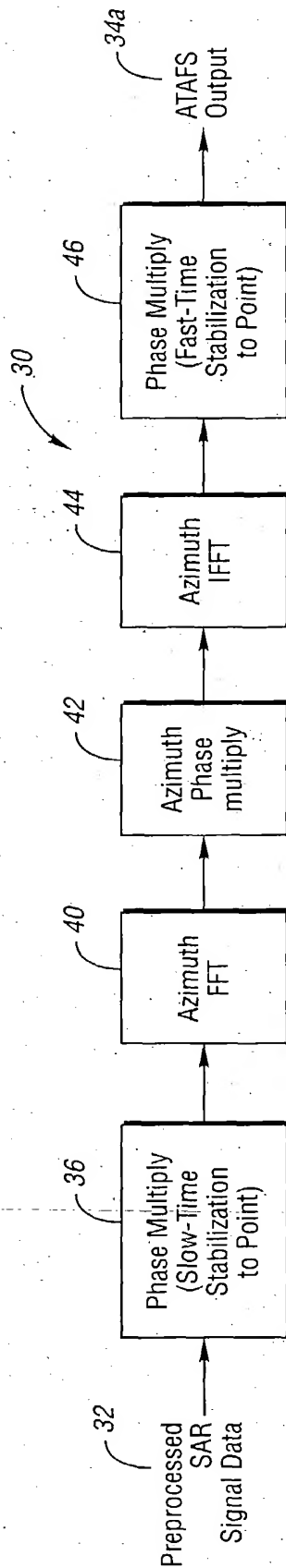
*Fig. 4c*



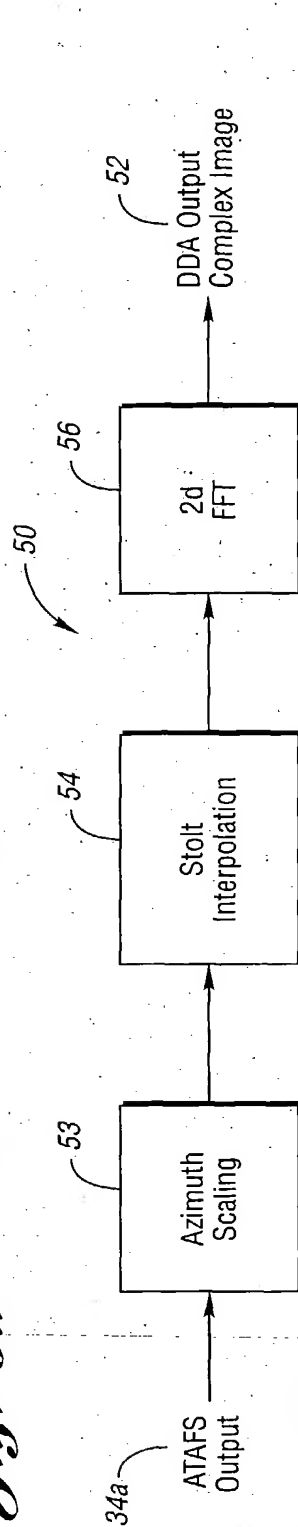
*Fig. 5a*



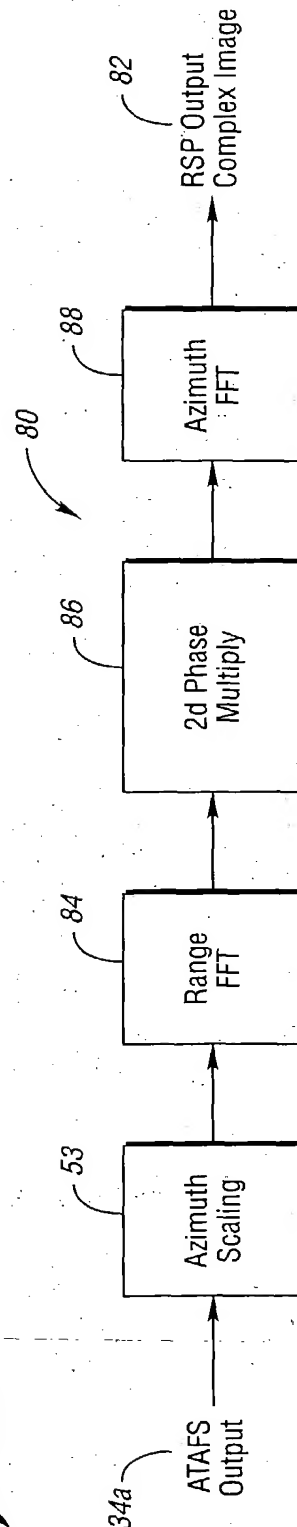
*Fig. 5b*



*Fig. 6a*



*Fig. 6b*



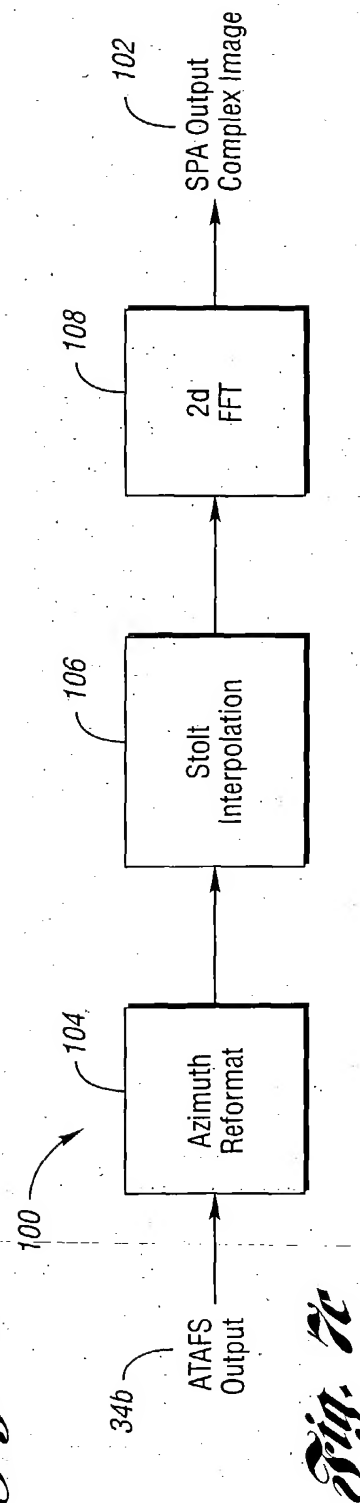
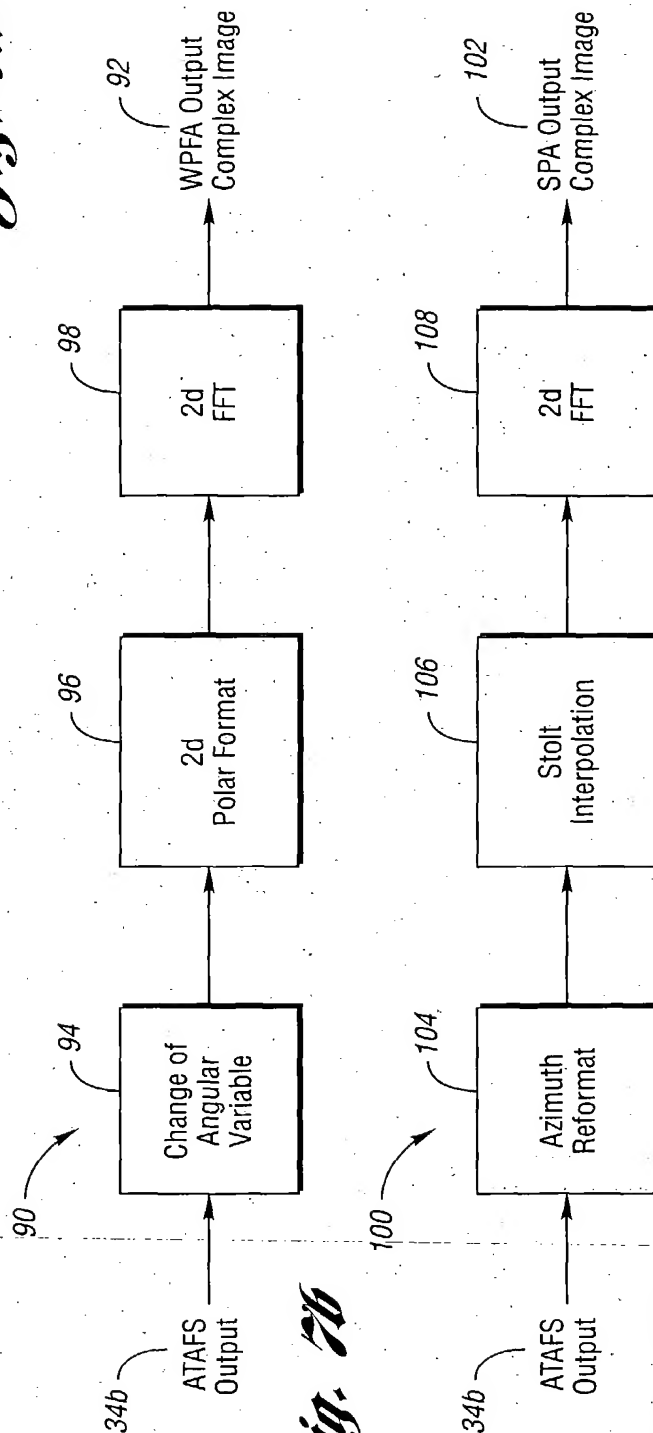
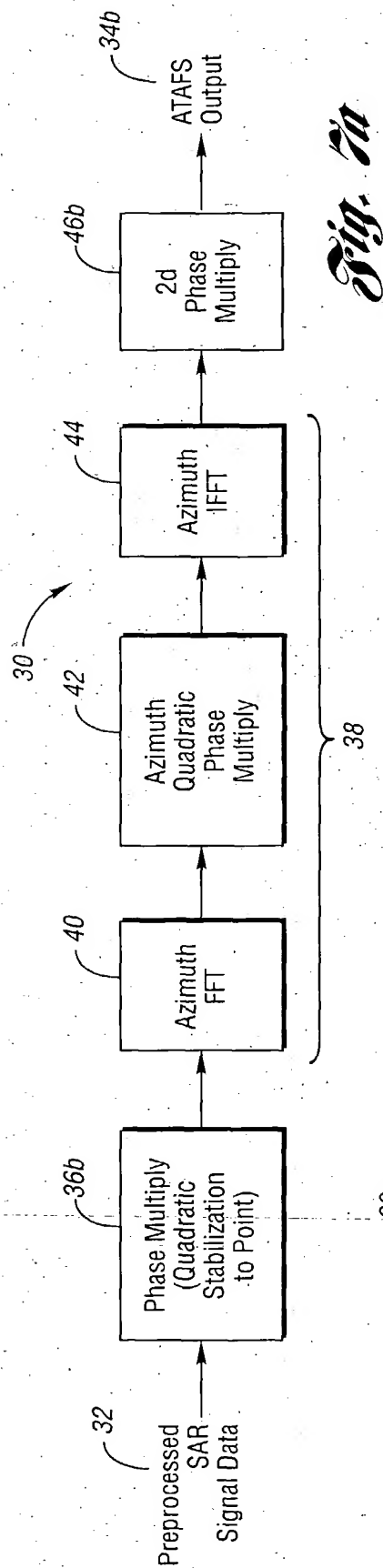
*Fig. 6c*

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Atty. Docket No.: ERIM 0117 PUS

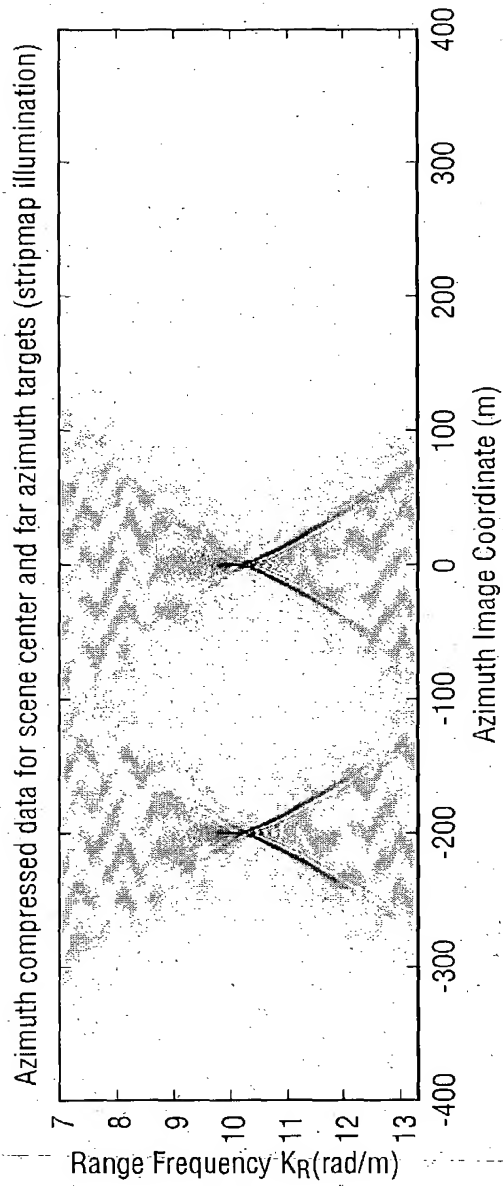
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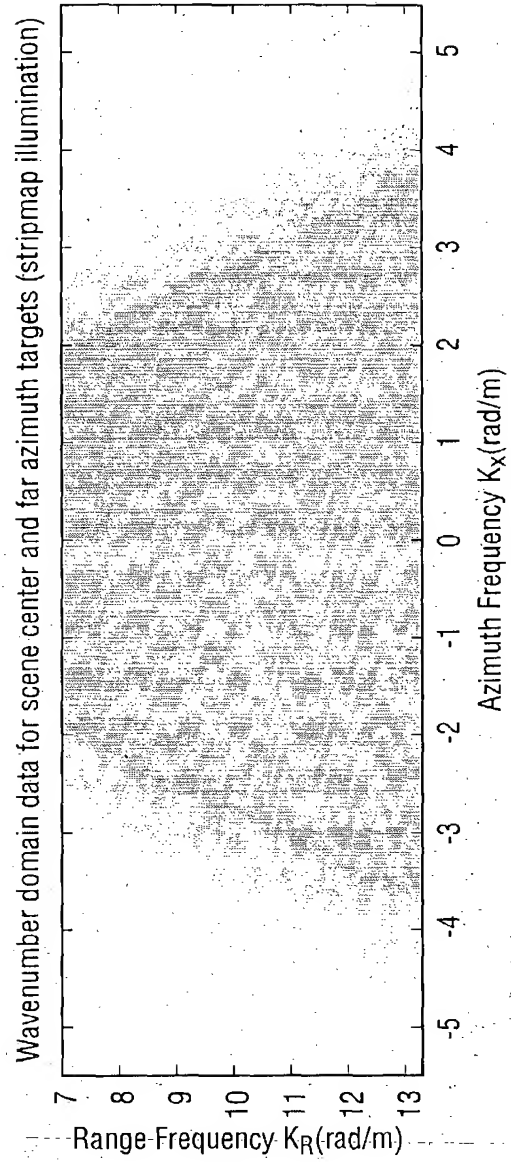
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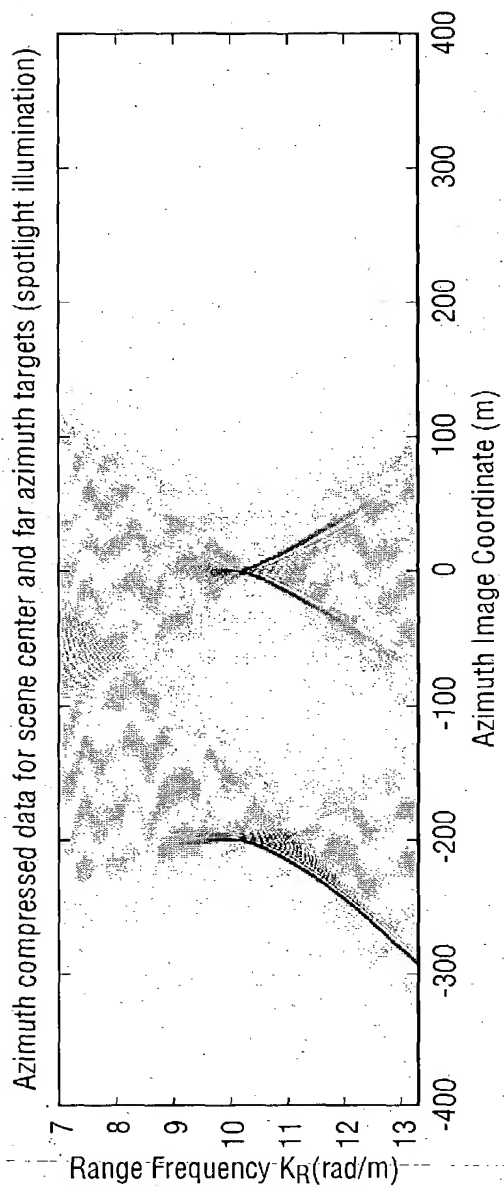
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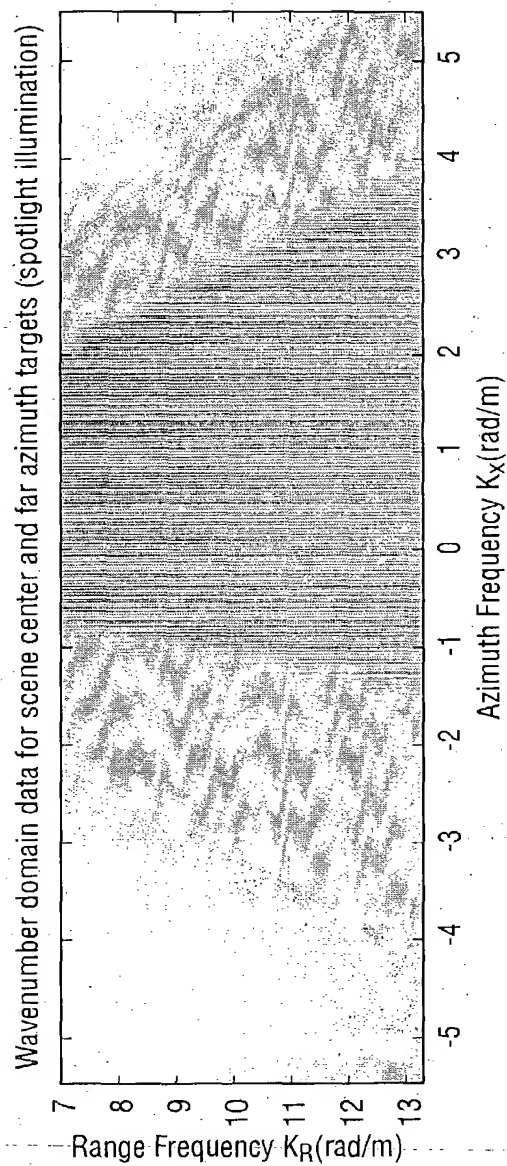
*Fig. 8a*



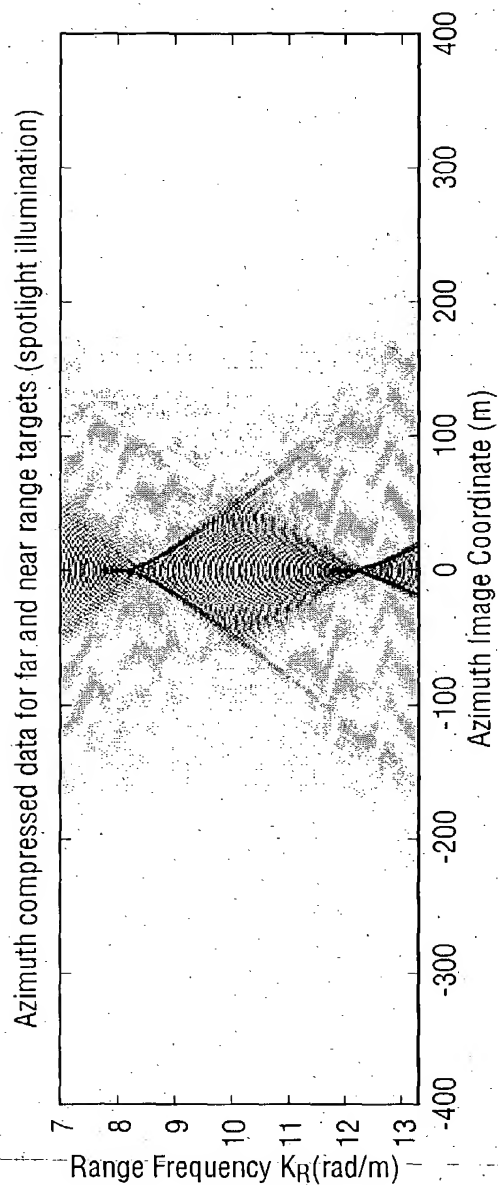
*Fig. 8b*



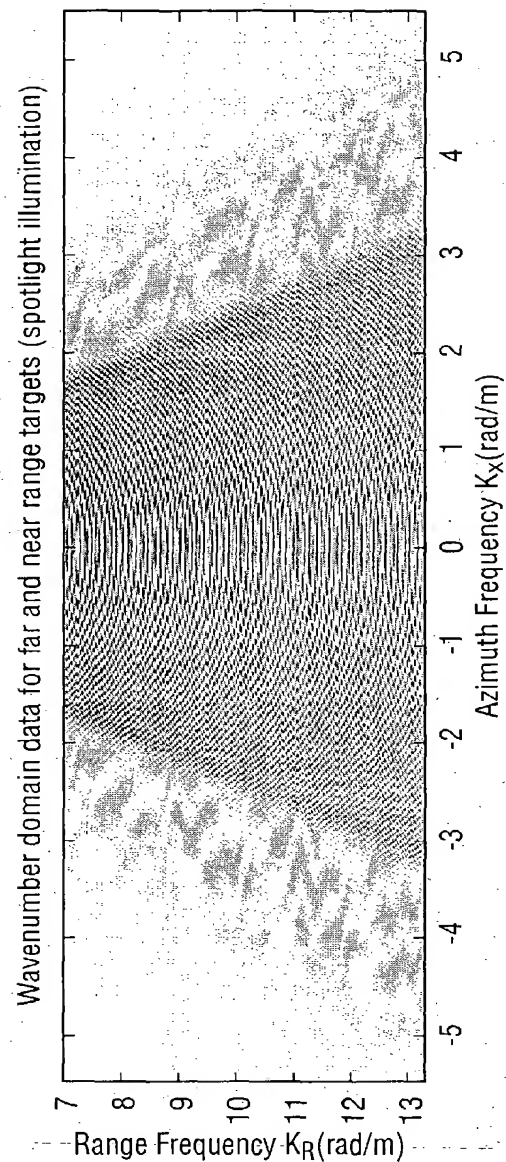
*Fig. 9a*



*Fig. 9b*

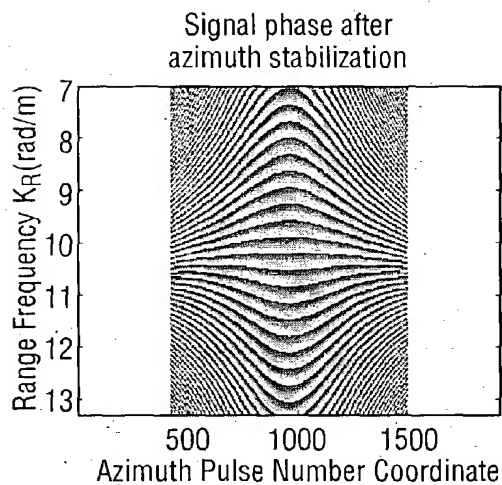


*Fig. 10a*

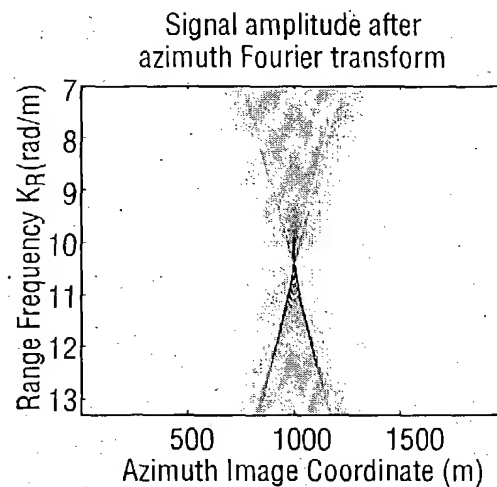


*Fig. 10b*

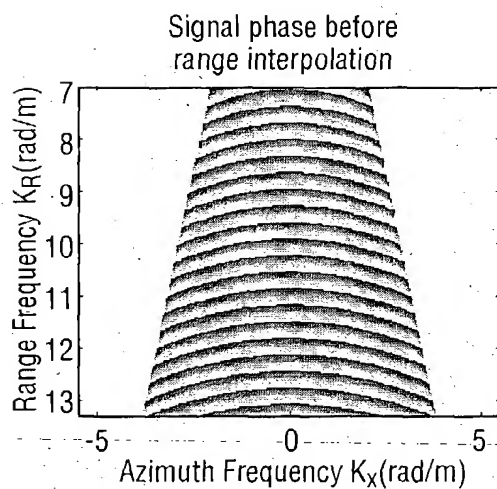




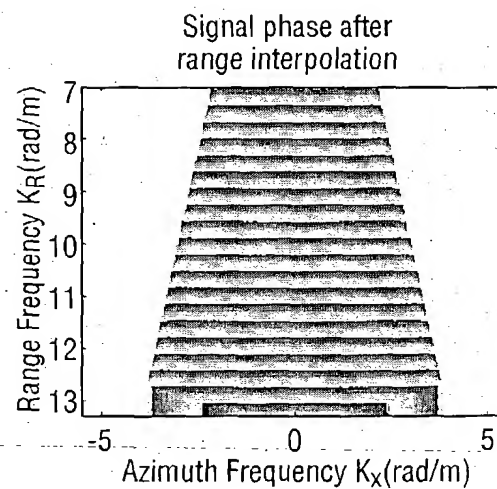
*Fig. 11a*



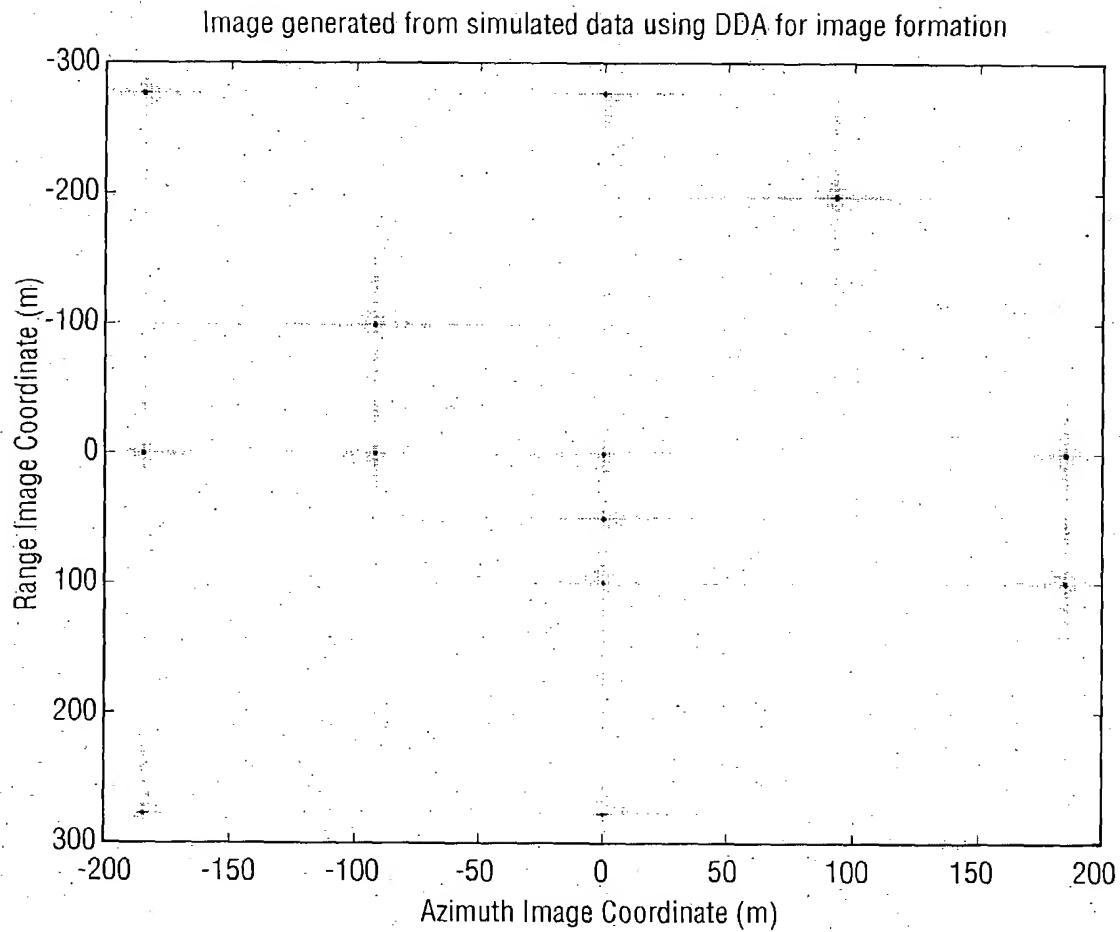
*Fig. 11b*



*Fig. 11c*



*Fig. 11d*



*Fig. 12*

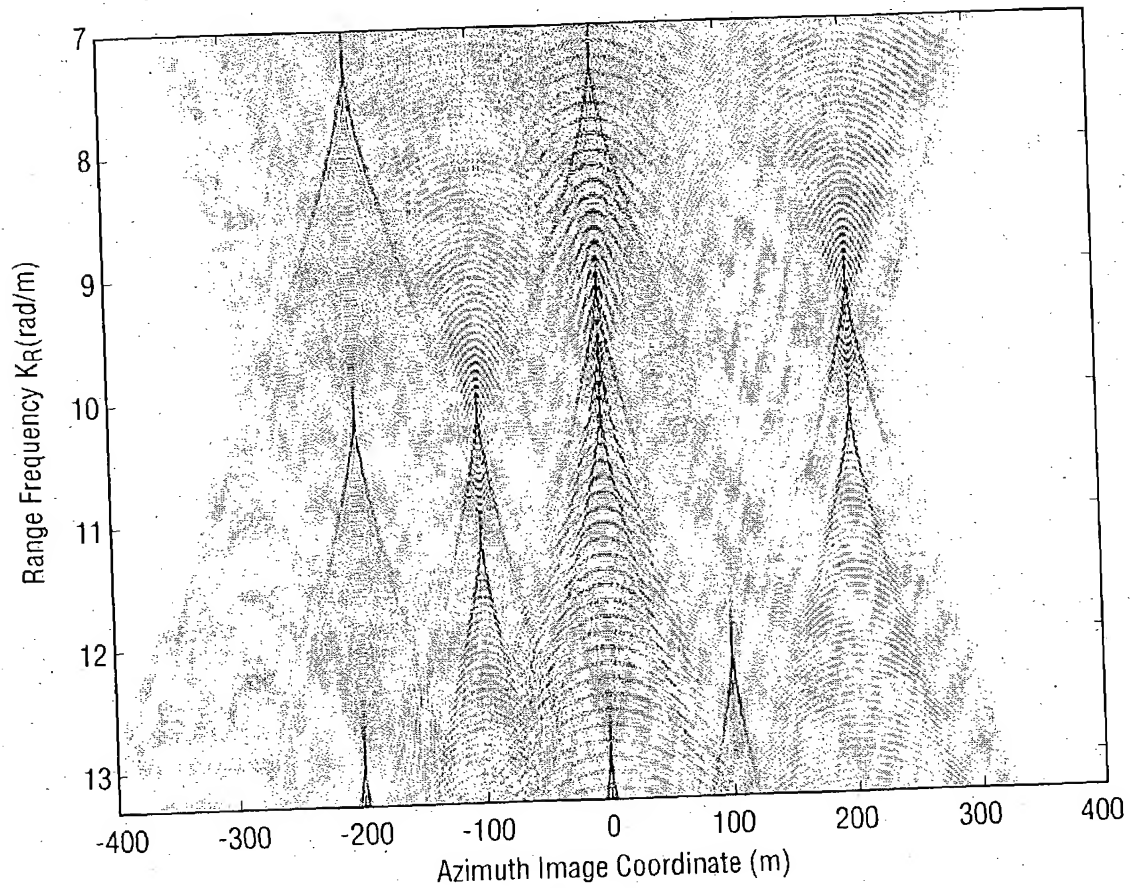
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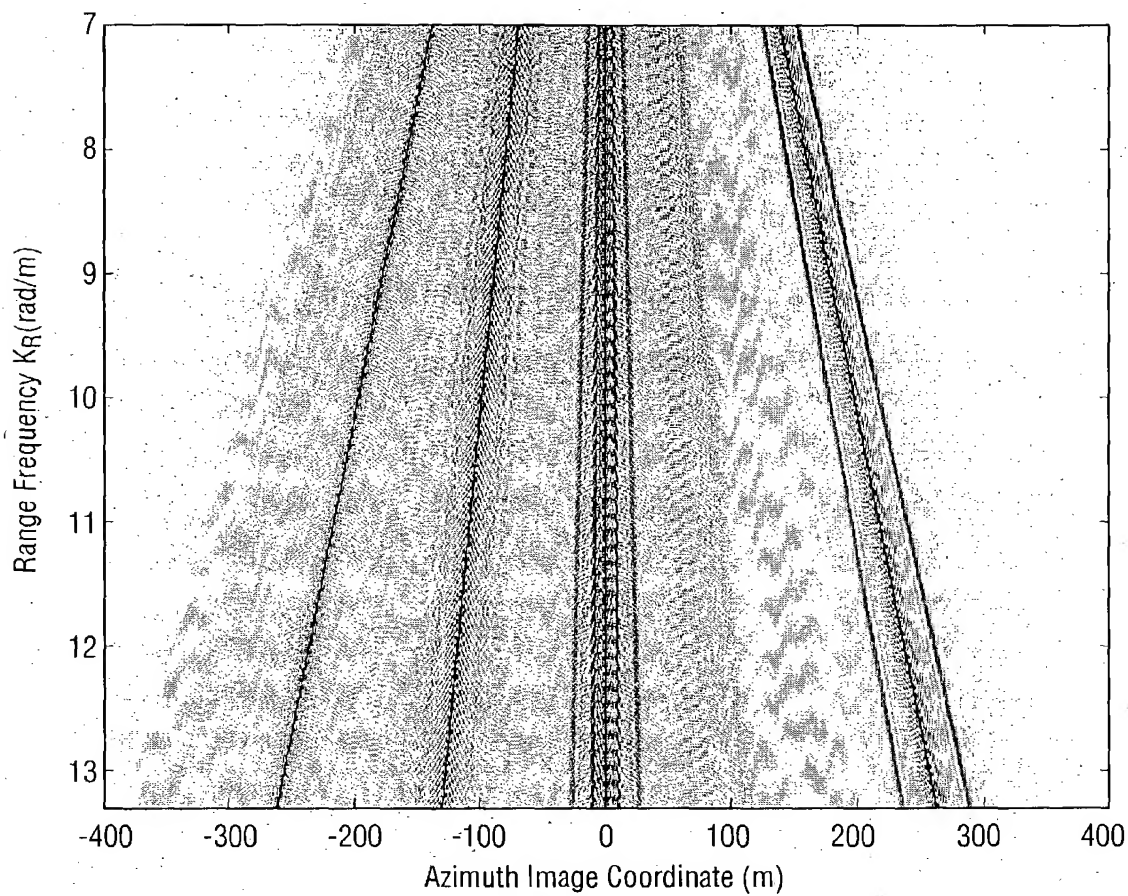
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Azimuth Fourier transform of signal data with azimuth stabilization to a point

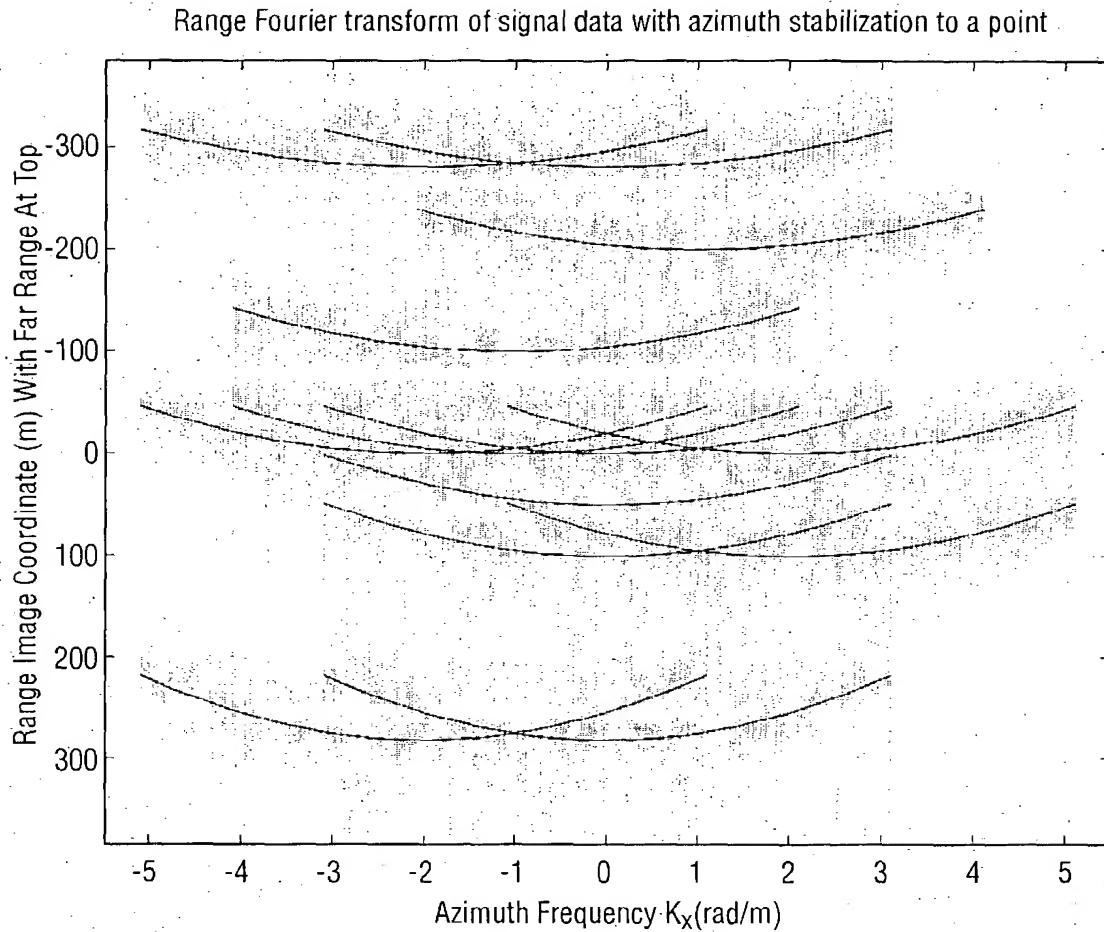


*Fig. 13*

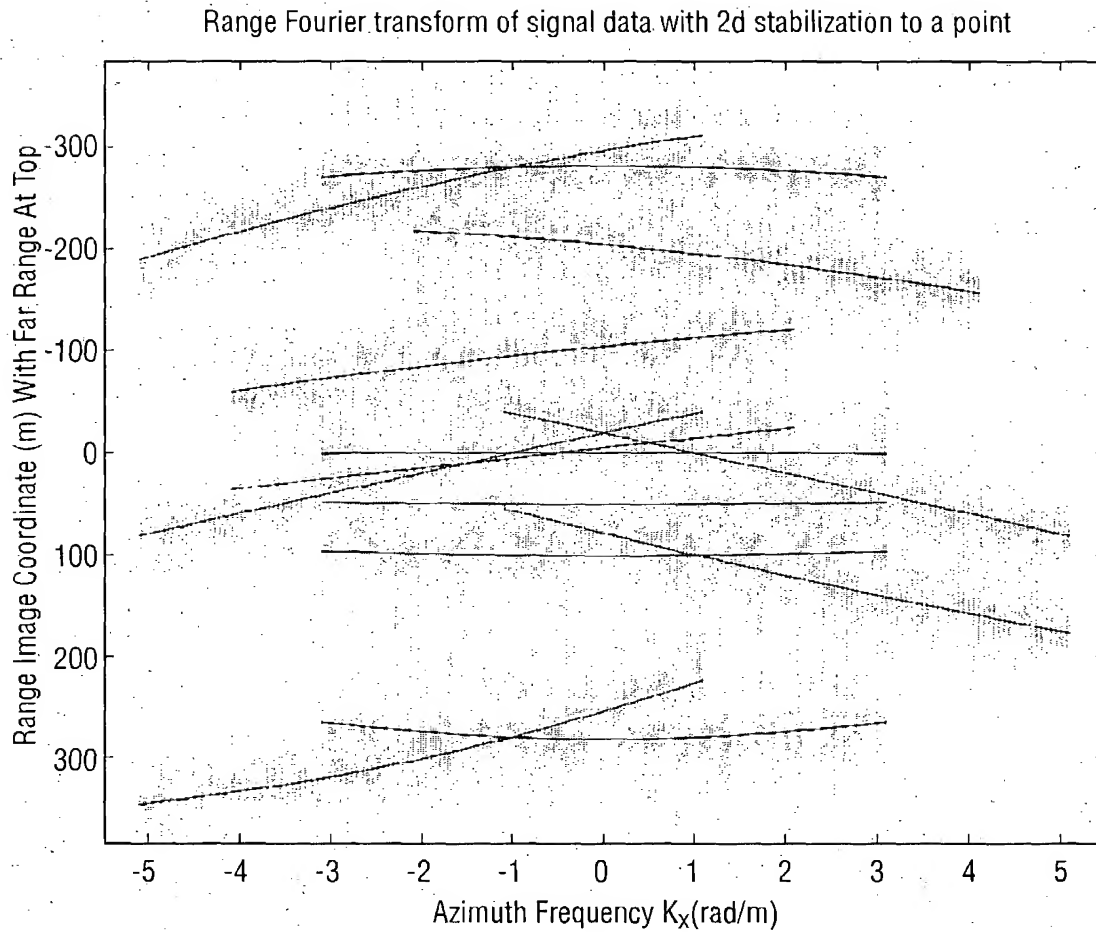
Azimuth Fourier transform of signal data with 2d stabilization to a point



*Fig. 14*

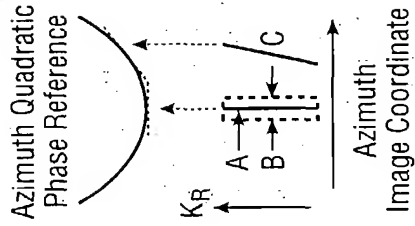


*Fig. 15*



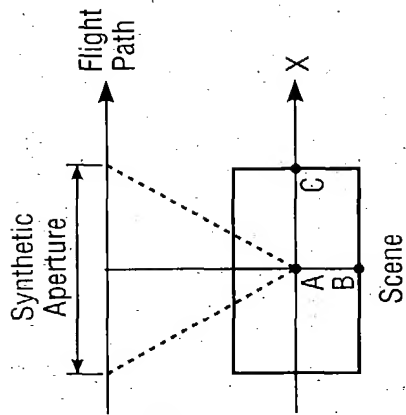
*Fig. 16*

Application of Second  
ATAFS Phase Adjustment



*Fig. 17b*

Data Collection Domain

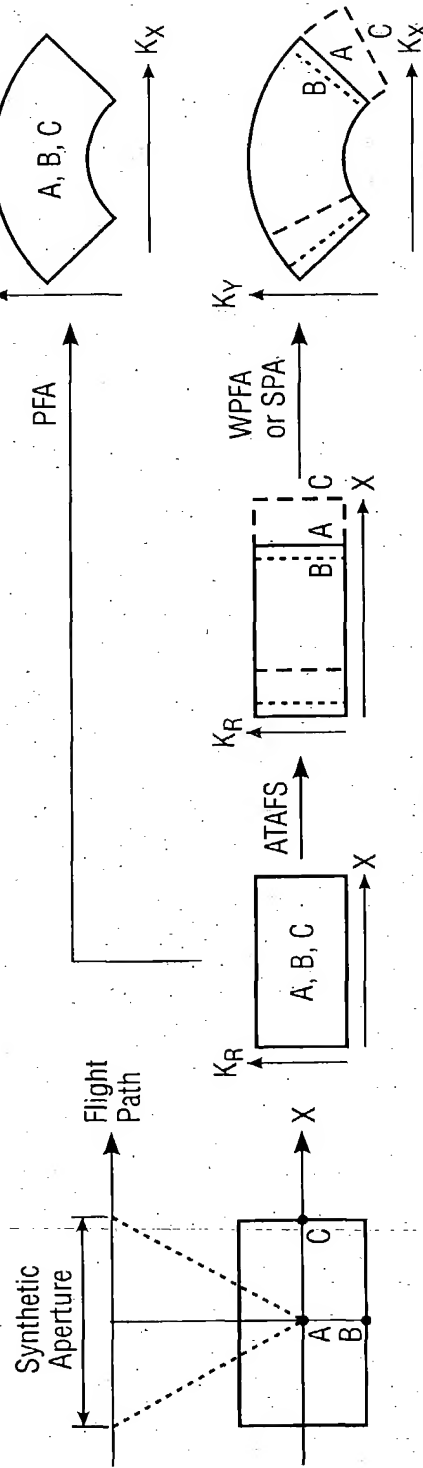


*Fig. 17a*

PH Support of  
Point Targets

PH Support  
After ATAFS

PH Support After  
Polar Forming



*Fig. 18*